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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/765,077	01/28/2004		Kuo Shu Cheng	MR1957-841	9809	
4586	7590	09/06/2006		EXAMINER		
ROSENBEI	-		AMADIZ, RODNEY			
3458 ELLICOTT CENTER DRIVE-SUITE 101 ELLICOTT CITY, MD 21043			E 101	ART UNIT	PAPER NUMBER	
				2629		

DATE MAILED: 09/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/765,077	CHENG, KUO SHU				
Office Action Summary	Examiner	Art Unit				
	Rodney Amadiz	2629				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be time rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. ely filed the mailing date of this communication. 0 (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 Ja						
	This action is FINAL . 2b)⊠ This action is non-final.					
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 28 January 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	a) \boxtimes accepted or b) \square objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- 2. Claims 1-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Gillick et al. (U.S. Patent 5,446,481-Herein referred to as "Gillick").

As to <u>Claim 1</u>, Gillick teaches a roller structure for a computer mouse having a mouse body (*Fig. 1, Reference Number 10*), a third-axis input device and at least two buttons (*Fig. 1, Reference Numbers 18 and 22*), comprising: a roller member having a concave portion formed on a circumference surface thereof (*Fig. 1, Reference Number 24*).

As to <u>Claim 2</u>, Gillick teaches the concave portion having two sides and a center lower than the two sides relative to an axial line of the roller member (*Fig. 2, Reference Number 24*).

As to <u>Claim 3</u>, Gillick teaches the concave portion being concave from top to bottom of the circumference surface of the roller member to form an arcuate shape (*Fig.* 2, *Reference Number 24*).

As to <u>Claim 4</u>, Gillick teaches the concave portion including a plurality of strips thereon for increasing a friction in *use (Fig. 2, Reference Number 24—note strips on*

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ends of rolling structure).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 5 rejected under 35 U.S.C. 103(a) as being unpatentable over Gillick.

As to Claim 5, Gillick fails to teach the thickness of the roller member having a predetermined value in the range of 6 mm to 15 mm. However, the specification shows races. Therefore, a roller member having a predetermined thickness in the range of 6 mm to 15 mm is clearly a design choice based on the specific requirement of the claim. Furthermore, it would have been obvious to one of ordinary skill in the art to include a roller member with any thickness range, including the range of 6 mm to 15 mm in the roller member taught by Gillick since any thickness range would perform equally well at accommodating users with different finger sizes. In addition, it would have also been obvious to one of ordinary skill in the art to include a roller member with any thickness range, including the range of 6 mm to 15 mm in the roller member taught by Gillick since the thickness would make the roller member more durable and easier to maneuver.

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Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney Amadiz whose telephone number is (571) 272-7762. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

又人。 R.A. 9/5/06 Division 2630

Division 2629 SUPERVISORY PATENT EXAMINER